

ATG GAA ATA TTC GGA AAG ACC TTC AGA GAG GGA AGA TTC GTT CTC AAA GAG AAA AAC TTC ACA GTT GAG TTC  
 GCG GTG GAG AAG ATA CAC CTT GGC TGG AAG ATC TCC GGC AGG GTG AAG GGA AGT CCG GGA AGG CTT GAG GTT  
 CTT CGA ACG AAA GCA CCG GAA AAG GTA CTT GTG AAC AAC TGG CAG TCC TGG GGA CCG TGC AGG GTG GTC GAT  
 GCC TTT TCT TTC AAA CCA CCT GAA ATA GAT CCG AAC TGG AGA TAC ACC GCT TCG GTG GTC CCC GAT GTA CTT  
 GAA AGG AAC CTC CAG AGC GAC TAT TTC GTG GCT GAA GAA GGA AAA GTG TAC GGT TTT CTG AGT TCG AAA ATC  
 GCA CAT CCT TTC TTC GCT GTG GAA GAT GGG GAA CTT GTG GCA TAC CTC GAA TAT TTC GAT GTC GAG TTC GAC  
 GAC TTT GTT CCT CTT GAA CCT CTC GAT GTT GTA CTC GAG GAT CCC AAC ACA CCC CTT CTT CTG GAG AAA TAC GCG  
 GAA CTC GTC GGA ATG GAA AAC AAC GCG AGA GTT CCA AAA CAC ACA CCC ACT GGA TGG TGC AGC TGG TAC CAT  
 TAC TTC CTT GAT CTC ACC TGG GAA GAG ACC CTC AAG AAC CTG AAG CTC GCG AAG AAT TTC CCG TTC GAG GTC  
 TTC CAG ATA GAC GAC GCC TAC GAA AAG GAC ATA GGT GAC TGG CTC GTG ACA AGA GGA GAC TTT CCA TCG GTG  
 GAA GAG ATG GCA AAA GTT ATA GCG GAA AAC GGT TTC ATC CCG GGC ATA TGG ACC GCC CCG TTC AGT GTT TCT  
 GAA ACC TCG GAT GTA TTC AAC GAA CAT CCG GAC TGG GTA GTG AAG GAA AAC GGA GAG CCG AAG ATG GCT TAC  
 AGA AAC TGG AAC AAA AAG ATA TAC GCC CTC GAT CTT TCG AAA GAT GAG GTT CTG AAC TGG CTT TTC GAT CTC  
 TTC TCA TCT CTG AGA AAG ATG GGC TAC AGG TAC TTC AAG ATC GAC TTT CTC TTC GCG GGT GCC GTT CCA GGA  
 GAA AGA AAA AAG AAC ATA ACA CCA ATT CAG GCG TTC AGA AAA GGG ATT GAG ACT AGA AAA CCG GTG GGA  
 GAA GAT TCT TTC ATC CTC GGA TGC GGC TCT CCC CTT CTT CCC GCA GTG GGA TGC GTC GAC GGG ATG AGG ATA  
 GGA CCT GAC ACT GCG CCG TTC TGG GGA GAA CAT ATA GAA GAC AAC GGA GCT CCC GCT GCA AGA TGG GCG CTG  
 AGA AAC GCC ATA ACG AGG TAC TTC ATG CAC GAC AGG TTC TGG CTG AAC GAC CCC GAC TGT CTG ATA CTG AGA  
 GAG GAG AAA ACG GAT CTC ACA CAG AAG GAA AAG GAG CTC TAC TCG TAC ACG TGT GGA GTG CTC GAC AAC ATG  
 ATC ATA GAA AGC GAT GAT CTC TCG CTC GTC GAT CAT GGA AAA AAG GTT CTG AAA GAA ACG CTC GAA CTC  
 CTC GGT GGA AGA CCA CCG GTT CAA AAC ATC ATG TCG GAG GAT CTG AGA TAC GAG ATC GTC TCG TCT GGC ACT  
 CTC TCA GGA AAC GTC AAG ATC GTG GTC GAT CTG AAC AGC AGA GAG TAC CAC CTG GAA AAA GAA GGA AAG TCC  
 TCC CTG AAA AAA AGA GTC GTC AAA AGA GAA GAC GGA AGA AAC TTC TAC TTC GAG GGT GAG AGA GAA  
 TGA

FIG. 1A (SEQ ID NO:1)

# FIG. 1B (SEQ ID NO: 2)

Met Glu Ile Phe Gly Lys Thr Phe Arg Glu Gly Arg Phe Val Leu Lys Glu Lys Asn Phe Thr Val Glu Phe  
Ala Val Glu Lys Ile His Leu Gly Trp Lys Ile Ser Gly Arg Val Lys Gly Ser Pro Gly Arg Leu Glu Val  
Leu Arg Thr Lys Ala Pro Glu Lys Val Leu Val Asn Asn Trp Gln Ser Trp Gly Pro Cys Arg Val Val Asp  
Ala Phe Ser Phe Lys Pro Pro Glu Ile Asp Pro Asn Trp Arg Tyr Thr Ala Ser Val Val Pro Asp Val Leu  
Glu Arg Asn Leu Gln Ser Asp Tyr Phe Val Ala Glu Glu Gly Lys Val Tyr Gly Phe Leu Ser Ser Lys Ile  
Ala His Pro Phe Phe Ala Val Glu Asp Gly Glu Leu Val Ala Tyr Leu Glu Tyr Phe Asp Val Glu Phe Asp  
Asp Phe Val Pro Leu Glu Pro Leu Val Val Leu Glu Asp Pro Asn Thr Pro Leu Leu Glu Lys Tyr Ala  
Glu Leu Val Gly Met Glu Asn Asn Ala Arg Val Pro Lys His Thr Pro Thr Gly Trp Cys Ser Trp Tyr His  
Tyr Phe Leu Asp Leu Thr Trp Glu Glu Thr Leu Lys Asn Leu Ala Lys Asn Phe Pro Phe Glu Val  
Phe Gln Ile Asp Asp Ala Tyr Glu Lys Asp Ile Gly Asp Trp Leu Val Thr Arg Gly Asp Phe Pro Ser Val  
Glu Glu Met Ala Lys Val Ile Ala Glu Asn Gly Phe Ile Pro Gly Ile Trp Thr Ala Pro Phe Ser Val Ser  
Glu Thr Ser Asp Val Phe Asn Glu His Pro Asp Trp Val Val Lys Glu Asn Gly Glu Pro Lys Met Ala Tyr  
Arg Asn Trp Asn Lys Lys Ile Tyr Ala Leu Asp Leu Ser Lys Asp Glu Val Leu Asn Trp Leu Phe Asp Leu  
Phe Ser Ser Leu Arg Lys Lys Met Gly Tyr Arg Tyr Phe Lys Ile Asp Phe Leu Phe Ala Gly Ala Val Pro Gly  
Glu Arg Lys Lys Asn Ile Thr Pro Ile Gln Ala Phe Arg Lys Gly Ile Glu Thr Ile Arg Lys Ala Val Gly  
Glu Asp Ser Phe Ile Leu Gly Cys Gly Ser Pro Leu Leu Pro Ala Val Gly Cys Val Asp Gly Met Arg Ile  
Gly Pro Asp Thr Ala Pro Phe Thr Gly Glu His Ile Glu Asp Asn Gly Ala Pro Ala Arg Trp Ala Leu  
Arg Asn Ala Ile Thr Arg Tyr Phe Met His Asp Arg Phe Trp Leu Asn Asp Pro Asp Cys Leu Ile Leu Arg  
Glu Glu Lys Thr Asp Leu Thr Gln Lys Glu Lys Glu Leu Tyr Ser Tyr Thr Cys Gly Val Leu Asp Asn Met  
Ile Ile Glu Ser Asp Asp Leu Ser Leu Val Arg Asp His Gly Lys Lys Val Leu Lys Glu Thr Leu Glu Leu  
Leu Gly Gly Arg Pro Arg Val Gln Asn Ile Met Ser Glu Asp Leu Arg Tyr Glu Ile Val Ser Ser Gly Thr  
Leu Ser Gly Asn Val Lys Ile Val Val Asp Leu Asn Ser Arg Glu Tyr His Leu Glu Lys Glu Gly Lys Ser  
Ser Leu Lys Lys Arg Val Val Lys Arg Glu Asp Gly Arg Asn Phe Tyr Phe Tyr Glu Glu Gly Arg Glu

FIG. 1B (SEQ ID NO: 2)

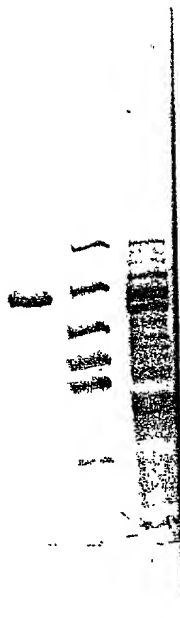
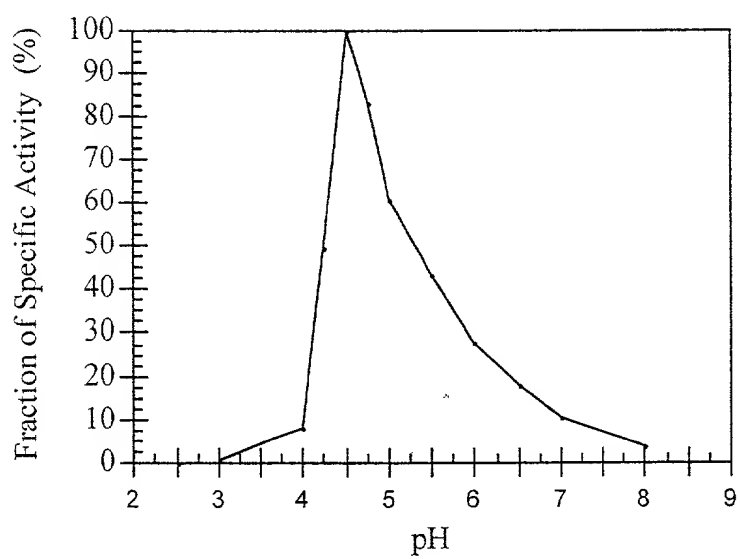
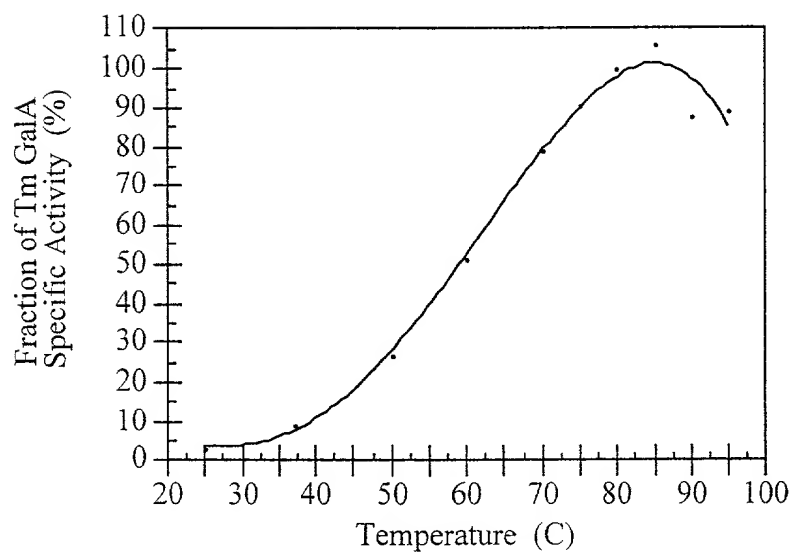


FIG. 2



**FIG. 3**



**FIG. 4**

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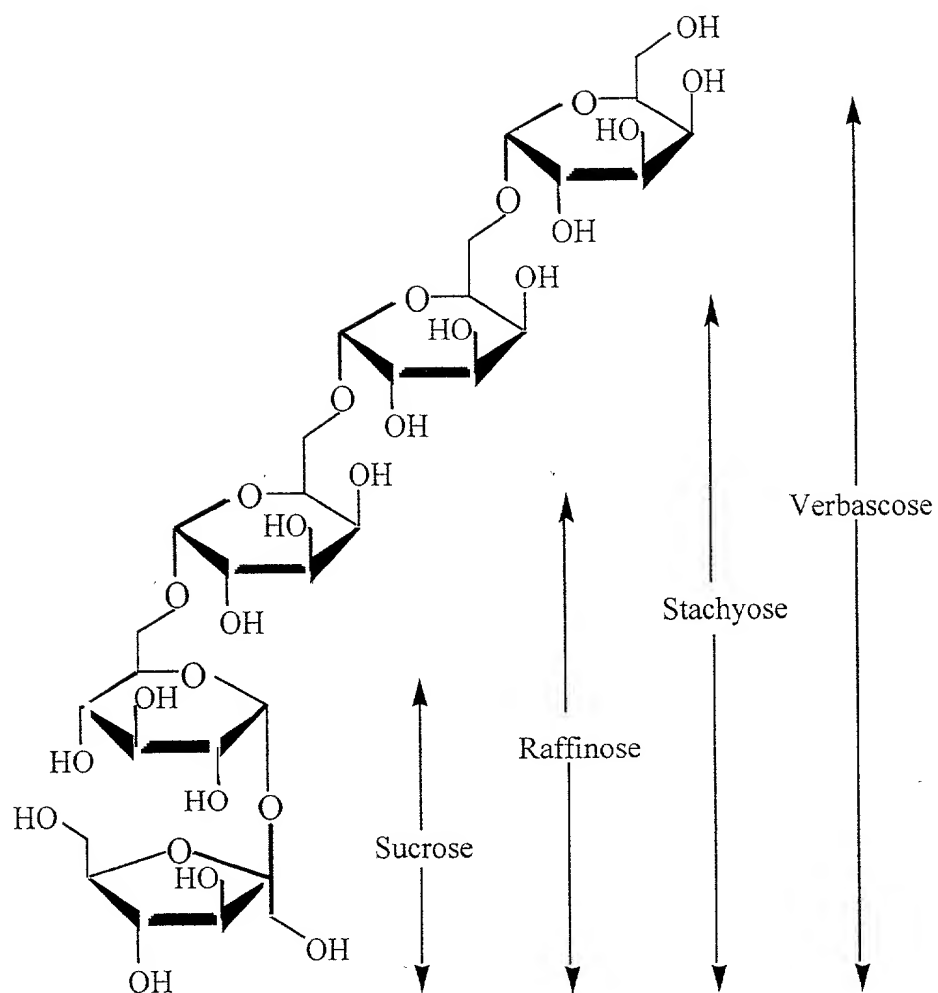


FIG. 5

Chromatogram showing detector response (mV) versus time (Minutes). The plot displays several peaks, with the following retention times labeled: 1.383, 32.817, 37.147, 42.023, 45.704, and 53.667. The peaks at 32.817, 37.147, 42.023, and 45.704 are marked with diamonds, while the peaks at 1.383, 53.667, and the small peak at 49.5 are marked with triangles.

Chromatogram showing detector response (mV) versus time (Minutes). The plot displays several peaks, with the following retention times labeled: 1.400, 32.817, 37.146, 42.013, 45.699, and 53.650. The y-axis ranges from 0.00 to 250.00 mV, and the x-axis ranges from 0.00 to 60.00 Minutes.

**FIG. 6B**

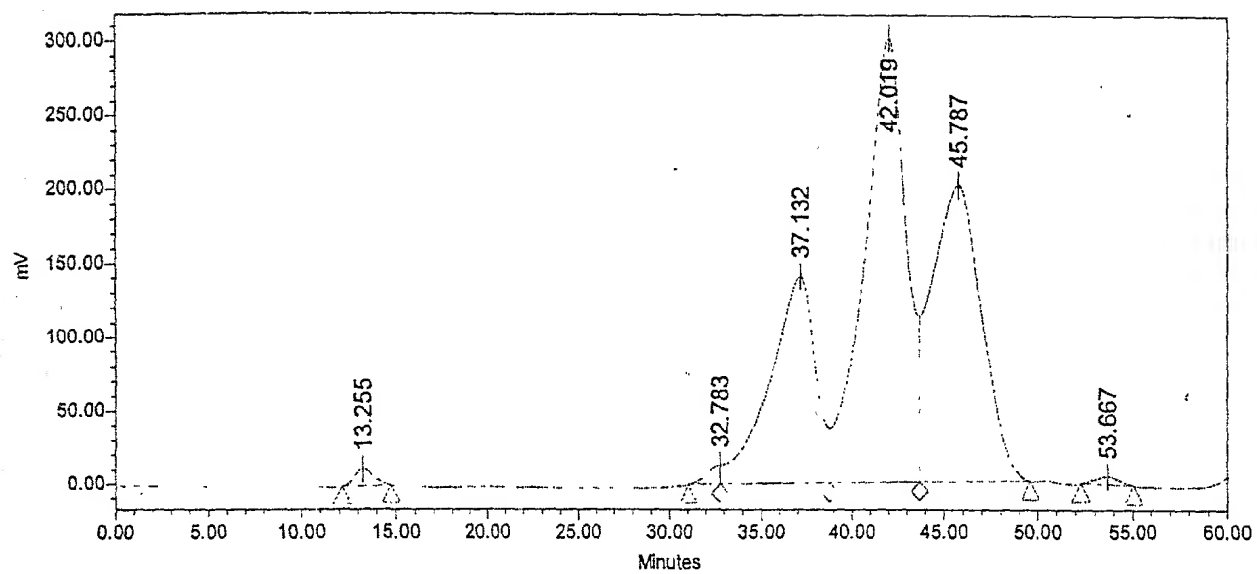


FIG. 6C

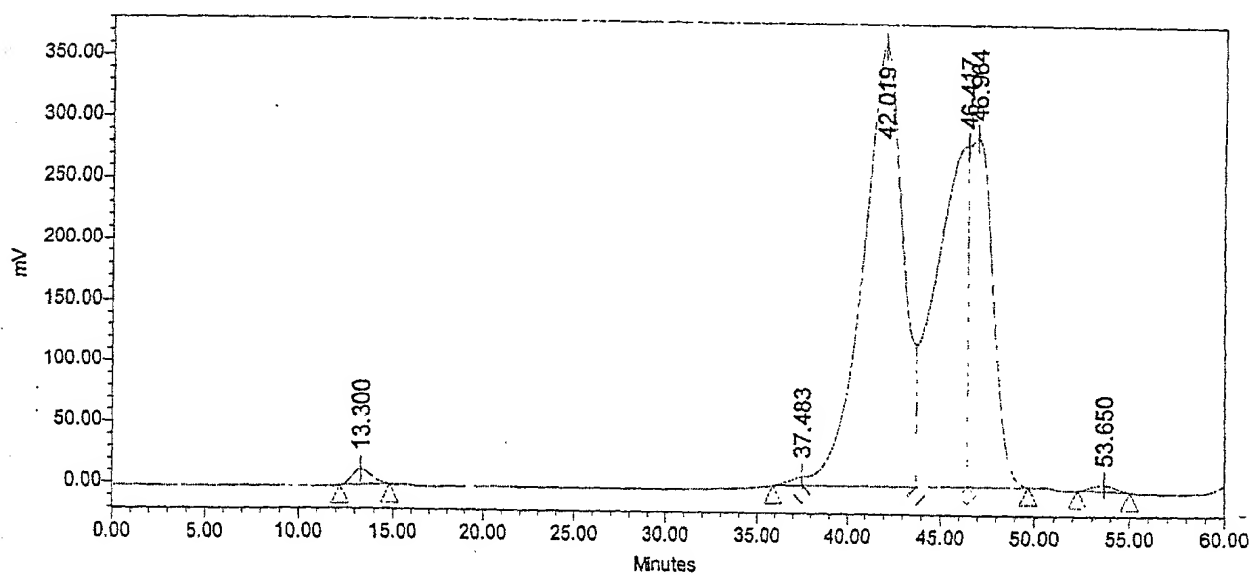


FIG. 6D

# Soybean Meal Processing

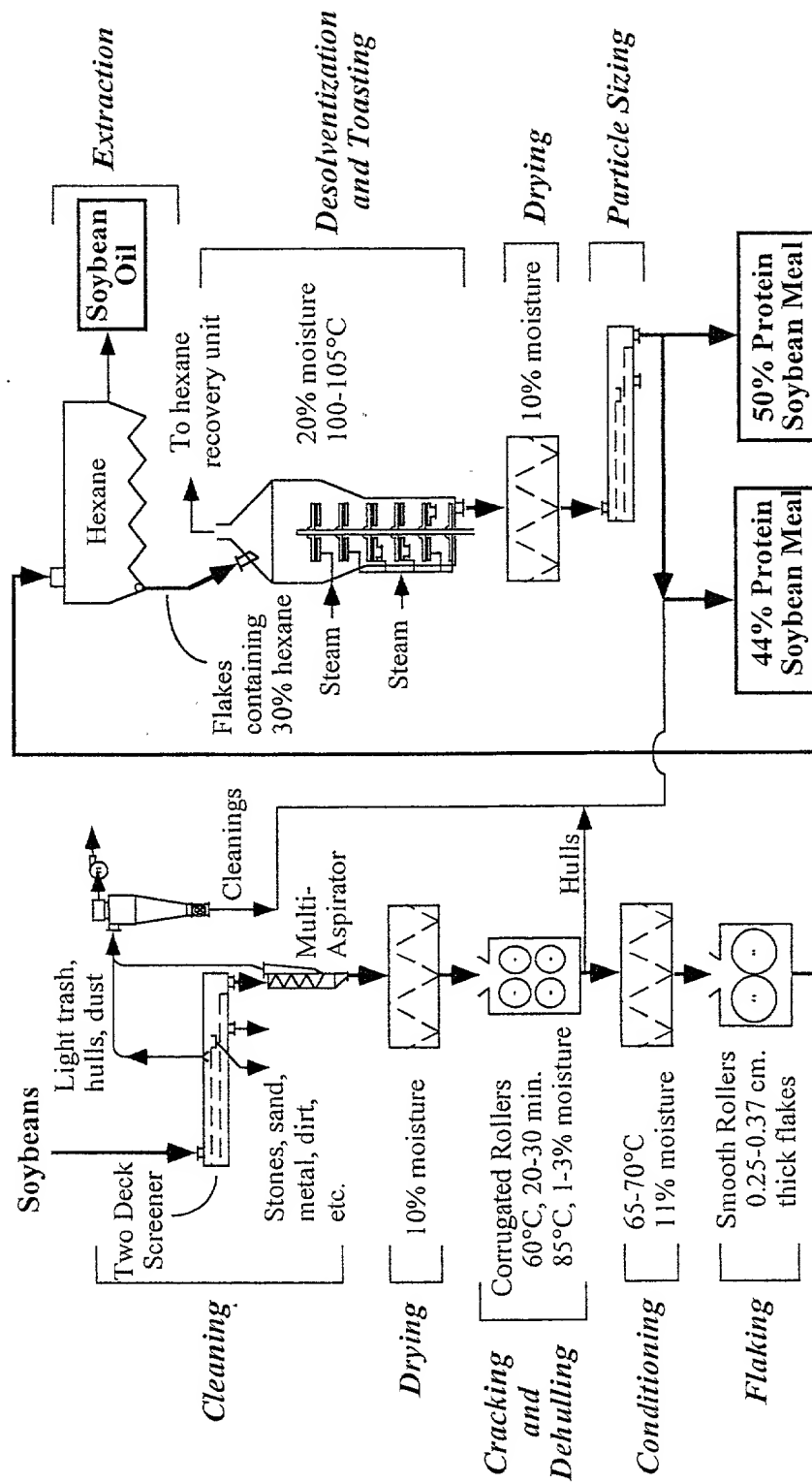


FIG.7